

Appl. No. 10/775,116  
Amdt. Dated Jun. 2, 2006  
Reply to Office Action of May 09, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (cancelled)

Claim 2 (cancelled)

Claim 3 (cancelled)

Claim 4 (cancelled)

Claim 5 (cancelled)

Claim 6 (cancelled)

Claim 7 (cancelled)

Claim 8 (cancelled)

Claim 9 (cancelled)

Claim 10 (currently amended)

A vehicle speed controller, comprising:

a rotary input device for human operation capable of continuous rotary motion

mounted to a vehicle being mechanically independent of means for propelling said vehicle;

speed sensing means responsive to changes in the angular velocity of said rotary  
input device;

a power source carried by said vehicle;

a motor connected to said means for propelling said vehicle, said motor being  
mechanically independent of said rotary input device;

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a controller electrically connected to said speed sensing means, said power source, and said motor, said controller being operative to proportionally regulate power supplied from said power source to said motor only relative to the sensed speed of said rotary input device in a continuous range from zero power when said rotary input device is halted;

wherein said vehicle is a wheeled land vehicle and said motor is an electric motor which mechanically drives one or more vehicle wheels and further wherein said speed sensing means is an electric generator mechanically driven by said rotary input means operative to selectively provide mechanical resistance to the rotation of said rotary input device by electrical resistance means; and

~~The speed controller of claim 8 further including~~ said electrical resistance means being connected to the electrical output of said generator.

Claim 11 (original)

The speed controller of claim 10 further described in that said electric resistance means is manually settable to provide variable amounts of mechanical resistance.

Claim 12 (currently amended)

The speed controller of claim ~~1~~ 10 wherein said power source is a battery.

Claim 13 (original)

The speed controller of claim 12 further including a circuit breaker to disconnect said power source.

Claim 14 (currently amended)

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The speed controller of claim ~~1~~ 10 further including means for selectively varying the proportional amount of electrical power increase to said motor relative to the increase in the sensed speed of the rotary input device.

Claim 15 (currently amended)

A vehicle speed controller, comprising:

a rotary input device for human operation capable of continuous rotary motion mounted to a vehicle being mechanically independent of means for propelling said vehicle;

speed sensing means responsive to changes in the angular velocity of said rotary input device;

a power source carried by said vehicle;

a motor connected to said means for propelling said vehicle, said motor being mechanically independent of said rotary input device;

a controller electrically connected to said speed sensing means, said power source, and said motor, said controller being operative to proportionally regulate power supplied from said power source to said motor only relative to the sensed speed of said rotary input device in a continuous range from zero power when said rotary input device is halted; and

~~The speed controller of claim 1~~ wherein said rotary input device further includes a drive sprocket, idler sprocket, and a drive chain extending therebetween, said sprockets and chain being visually simulative of a bicycle chain drive.

Claim 16 (cancelled)

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Claim 17 (currently amended)

The vehicle speed controller of claim ~~1~~ 15 further including a key switch which in the off position shorts out the output of the speed controller to disable it.

Claim 18 (currently amended)

The speed controller of claim ~~16~~ 15 wherein said speed sensing means is a first rotary encoder.

Claim 19 (previously presented)

The vehicle speed controller of claim 18 further including a second encoder connected to said motor output means for determining its angular position of rotation.